



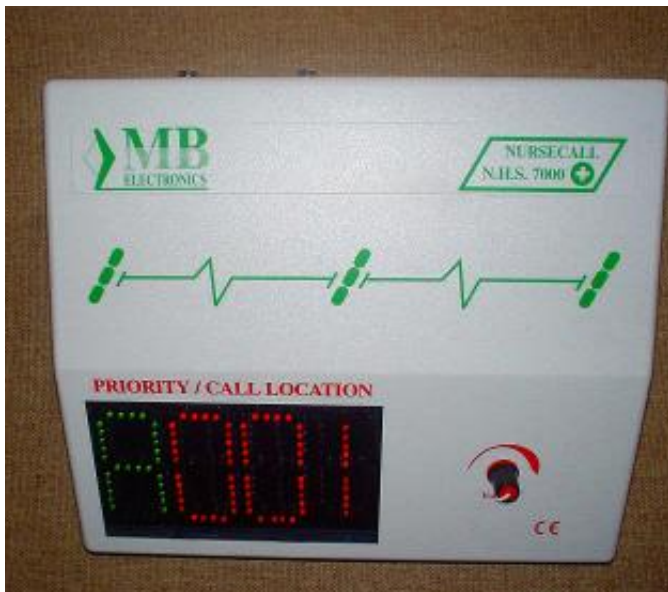
# MB ELECTRONICS

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## NurseCall NHS 7000



<b>Call Capacity:</b>	999
<b>Levels Of Call:</b>	3 (P) atient (A) ssistance (E) mergency
<b>Call Waiting:</b>	will scroll up to 10 patient calls  assitance or emergency calls will take priority

### Operation

Each NHS 7000 nursecall can receive up to 999 NC3002 wall transmitters, the identity of the received 3002NC will be displayed as a number between 001-999 this number will be proceeded with a priority letter indicating the level of the call also an audible sound will be heard.

----	STANDBY MODE	NO SOUND
P???	PATIENT CALL	A SINGLE SLOW TONE
A???	ASSISTANCE CALL	A SINGLE RAPID TONE
E???	EMERGENCY CALL	A DUAL RAPID TONE
F???	FAULTY LEAD ON 3002NC	A SINGLE TONE ONCE A MINUTE
L???	LOW BATTERY ON 3002NC	A SINGLE TONE ONCE A MINUTE

To remove a F??? from the system the faulty lead must be replaced, then an alarm call must be sent and then cancelled.

To remove a L??? from the system replace the low battery with a new one, then an alarm call must be sent and then cancelled.

The sound level of the system can be adjusted by the use of the volume control on the front of the unit.

The system can be reset by use of the push button on the top of the unit, this button should only be used if the call cannot be cancelled from the 3002NC wall transmitter.

## NHS 7000 INSTALLATION

1. Remove the lid retaining screw on top of the unit and remove the lid.
2. Fix unit in position on wall
2. Connect to the mains supply via a 3 amp fused spur ( for ease of fitting the top PCB can be unclipped.)
3. Connect the battery, the unit should show "8888". After approx 1 second the display should show - - - .
4. Replace the lid ensuring that the volume switch lead is still connected.
5. Replace Fuse in fused Spur.A large GREEN LED in centre bottom will light to indicate mains present.
6. Remove self tapping screw from the right hand side of the unit fix the supplied antenna with the self tapping screw, ensure that the coaxial lead of the antenna is pointing upwards
7. plug on the coax lead to the centre BNC connector.
8. Plug on the supplied small antenna to the remaining left hand BNC connector. This antenna is used for repeating calls only not receiving.
9. **Press and release the reset button on the top of the unit**, the unit should show the housecode of the unit "000" (this indicates housecode zero,this is the factory setting) and then "8888". After approx 1 second the display should show - - - .

### Setting The housecode of the NHS7000

Underneath the main display board to the centre of the case there is a circuit board with a 7 way switch on it. Do not confuse this board with the repeater board which is slightly smaller.

These switches set the housecode that the receiver operates on.

Switch 1 has a value of 1

Switch 2 has a value of 2

Switch 3 has a value of 4

Switch 4 has a value of 8

Switch 5 has a value of 16

Switch 6 has a value of 32

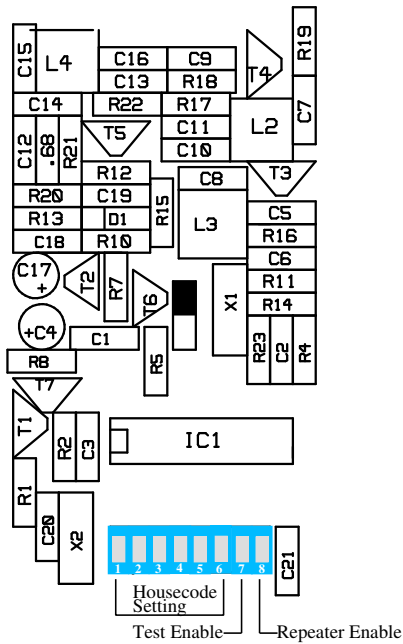
Switch 7 NOT USED

To set a housecode of 2 switch on(up) switch 2

To set a housecode of 3 switch on(up) switch 1,2

**This setting is normally setup at the factory and need not be changed.After changing the housecode the reset button must be pressed and the new housecode will be displayed as in 9 above**

## NHS 7000 REPEATER TRANSMITTER



### INTERNAL REPEATER BOARD

Removing the lid of the NHS7000 receiver (see page 1) enables access to the repeater transmitter this is located to the left hand side of the case above the main display board.

The repeater transmitter enables the NHS7000 to pass on any received calls to other NHS7000 panels that may be fitted.

The Repeater transmitter is setup up as follows:-

#### Setting The housecode

- Switch 1 has a value of 1
- Switch 2 has a value of 2
- Switch 3 has a value of 4
- Switch 4 has a value of 8
- Switch 5 has a value of 16
- Switch 6 has a value of 32

- To set a housecode of 2 switch on(up) switch 2 (2)
- To set a housecode of 3 switch on(up) switch 1,2 (1+2)
- To set a housecode of 44 switch on(up) switch 6,4,3 (32+8+4)

**This setting is normally setup at the factory and need not be changed**

#### Repeater Functions

- switch 7 turn on(up) off(down)the test transmission.
- switch 8 enables(up) or disables(down) the repeater transmitter.

## SITE TESTING

If there is a group of transmitters that do not reach the main NHS 7000 receiver a further NHS 7000 can be located near these transmitters and the repeater transmitters can be turned on. You can test the repeater transmitters as follows:-

### **Testing secondary Repeater Link**

(See page 1 for repeater connector antenna this antenna is used for repeating calls only not receiving)

Site the secondary NHS 7000 in a location that picks up all the transmitters that do not reach the main NHS 7000 receiver now turn on the repeater transmitter (switch 8) within the secondary unit and set it to test mode (switch 7)

(see page 2 for more details.)

The main NHS 7000 receiver should be receiving P999 and cancelling every few minutes. If the link between the secondary and the main NHS 7000 is not reliable, a larger antenna for the repeater can be used on the secondary panel. Once you have a reliable link turn off the repeater in the secondary panel and turn off the test mode.

### **Testing main NHS7000 Repeater Link**

(See page 1 for repeater connector antenna this antenna is used for repeating calls only not receiving)

Now turn the repeater on and test mode on in the main NHS7000 and repeat the above eg. the secondary panel should now be receiving P999 and cancelling every few seconds again if the link is not reliable a larger antenna can be used on the repeater transmitter at the main NHS7000. When the link is tested, turn off test mode and the repeater transmitter in the main NHS7000 receiver.

When you are satisfied that the link is reliable between the secondary and the main NHS7000 turn on the repeater transmitters in both units ensuring that the test mode (switch 7) is turned off in both. Now try one of the transmitters that did not reach the main NHS7000, you will find that the secondary unit will pick up the transmitter and four seconds later re-transmit the call to the main NHS7000.

### **Hints & Tips**

Great care should be taken when using repeaters, that four seconds is left between calls, if you cancel the call while a repeater is still transmitting the call may re-appear in real use this is never a problem as there is always more than 4 seconds between calls.

You may find it useful to code a standard nurecall transmitter to 999 as this can then be used to cancel any test calls that may be left in the system.

Only use repeater transmitters if necessary you may find that you can add extra secondary NHS7000 without using the repeater transmitter.